

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P302853

Luminaire Tested: **GAA-AF-06-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-T4W-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27532.6 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

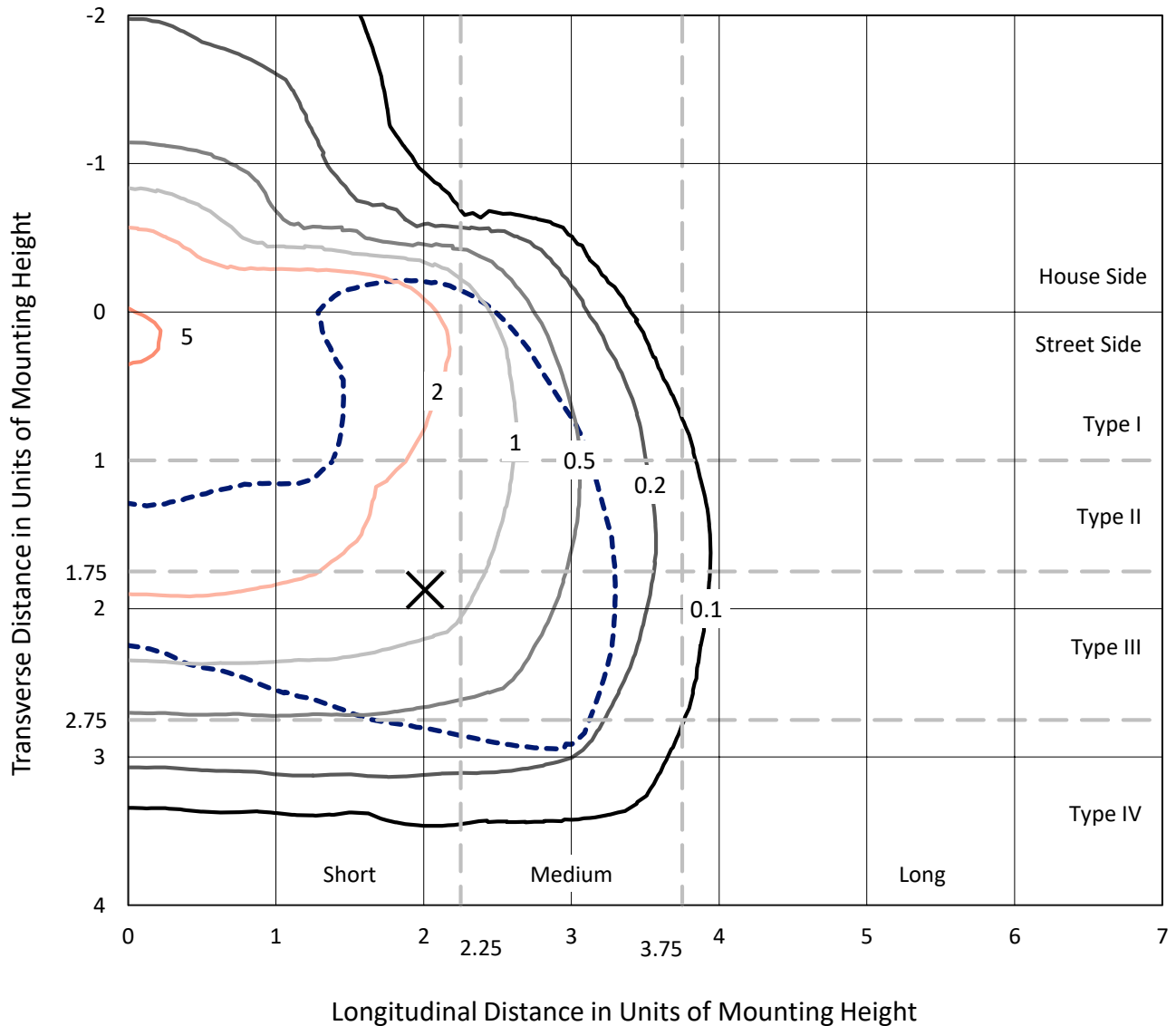


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

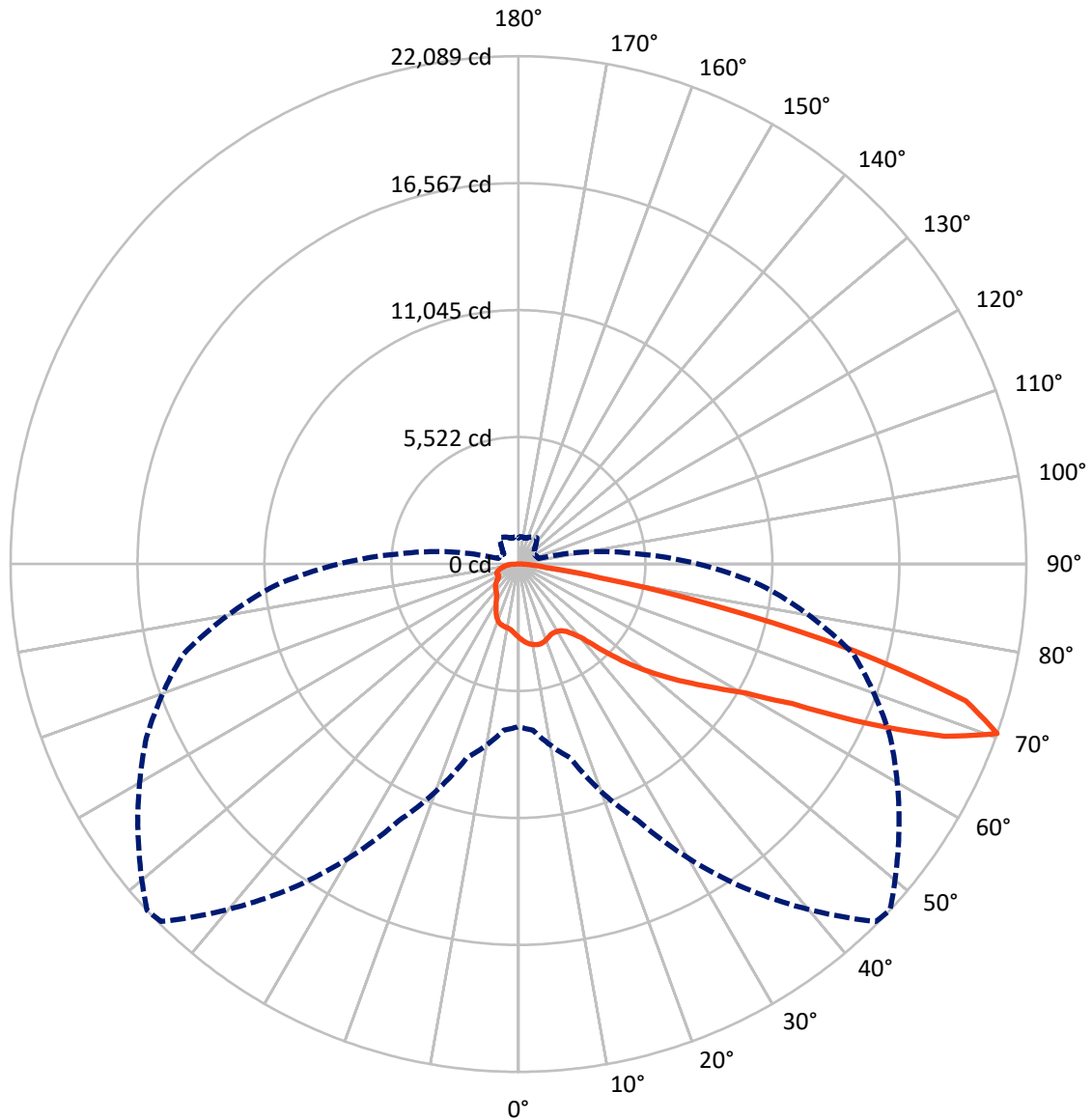


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5743.9   | 0.0    | 5743.9  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 21788.8  | 0.0    | 21788.8 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 27532.6  | 0.0    | 27532.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.1   | 1.1       |
| 10°-20°   | 898.0   | 3.3       |
| 20°-30°   | 1326.1  | 4.8       |
| 30°-40°   | 1927.5  | 7.0       |
| 40°-50°   | 3468.8  | 12.6      |
| 50°-60°   | 6009.4  | 21.8      |
| 60°-70°   | 8577.2  | 31.2      |
| 70°-80°   | 4403.0  | 16.0      |
| 80°-90°   | 616.4   | 2.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 27532.6 | 100.0     |
| 0°-180°   | 27532.6 | 100.0     |

**Coefficient of Utilization**



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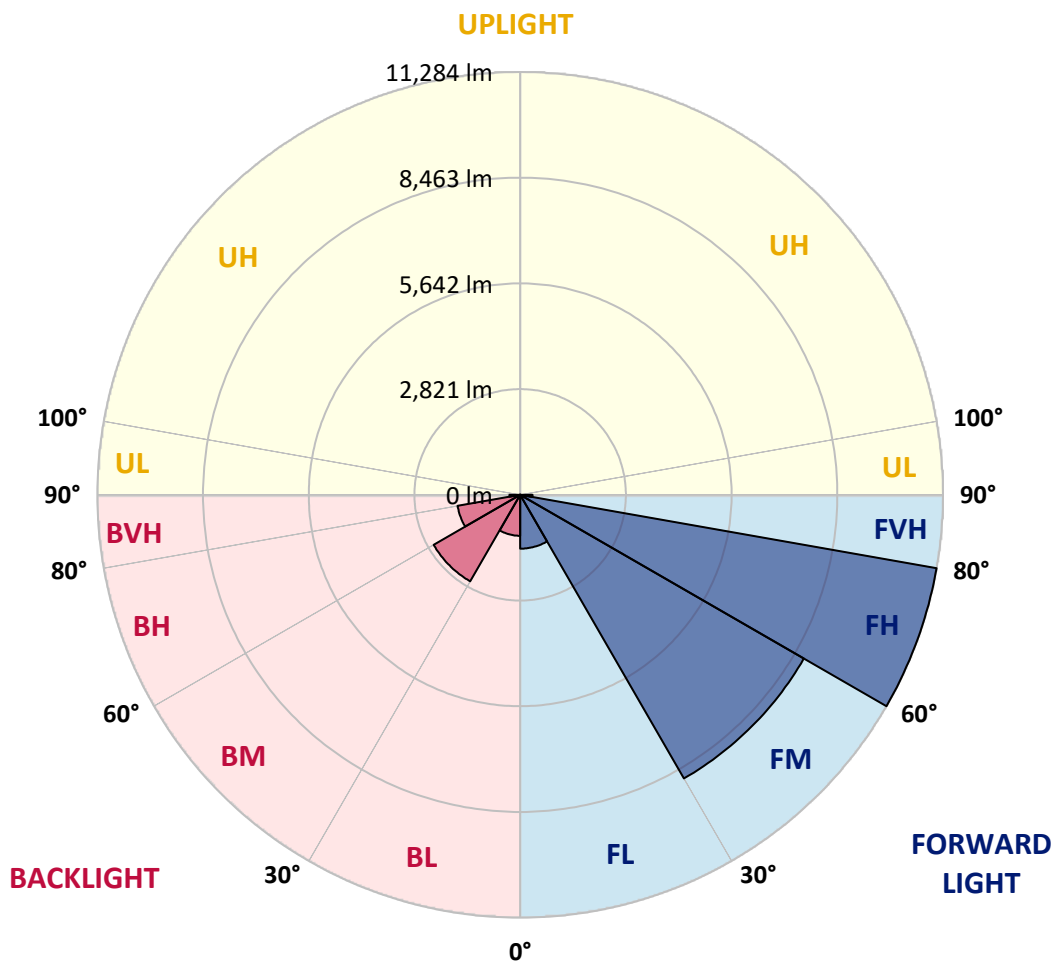
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1436.6  | 5.2       |                         |      |          |
| FM (30°-60°)   | 8739.6  | 31.7      |                         |      |          |
| FH (60°-80°)   | 11283.6 | 41.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 328.9   | 1.2       |                         |      | G3/500   |
| BL (0°-30°)    | 1093.7  | 4.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 2666.1  | 9.7       | B3/5000                 |      |          |
| BH (60°-80°)   | 1696.6  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 287.5   | 1.0       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  | 3194.6  |
| 2.5°  | 3382.3  | 3375.6  | 3373.0  | 3367.6  | 3360.9  | 3327.1  | 3320.5  | 3296.4  | 3263.1  | 3227.9  | 3191.9  |
| 5°    | 3604.7  | 3603.4  | 3588.3  | 3561.6  | 3518.9  | 3445.0  | 3427.7  | 3369.0  | 3289.8  | 3213.3  | 3137.2  |
| 7.5°  | 3800.0  | 3788.0  | 3760.0  | 3706.2  | 3631.4  | 3530.9  | 3506.9  | 3425.0  | 3316.5  | 3211.9  | 3108.7  |
| 10°   | 3943.3  | 3936.6  | 3875.2  | 3801.4  | 3703.5  | 3592.3  | 3564.3  | 3473.1  | 3353.8  | 3221.3  | 3092.7  |
| 12.5° | 4025.1  | 4011.8  | 3940.6  | 3852.5  | 3736.0  | 3627.4  | 3598.9  | 3506.9  | 3373.0  | 3221.3  | 3070.0  |
| 15°   | 4019.8  | 4010.4  | 3939.3  | 3842.7  | 3725.3  | 3630.1  | 3604.7  | 3512.2  | 3369.0  | 3207.9  | 3040.6  |
| 17.5° | 3912.6  | 3916.6  | 3856.5  | 3761.3  | 3664.8  | 3592.3  | 3569.6  | 3484.2  | 3341.8  | 3181.2  | 3005.9  |
| 20°   | 3725.3  | 3744.0  | 3703.5  | 3619.4  | 3565.6  | 3516.2  | 3501.5  | 3429.0  | 3300.4  | 3142.5  | 2968.1  |
| 22.5° | 3537.6  | 3554.9  | 3538.9  | 3467.7  | 3459.7  | 3430.3  | 3422.3  | 3370.3  | 3264.4  | 3118.5  | 2945.4  |
| 25°   | 3399.7  | 3415.7  | 3413.0  | 3351.2  | 3375.6  | 3374.3  | 3367.6  | 3341.8  | 3256.4  | 3118.5  | 2949.4  |
| 27.5° | 3362.3  | 3367.6  | 3362.3  | 3305.8  | 3339.1  | 3366.3  | 3360.9  | 3356.5  | 3280.4  | 3157.2  | 3000.6  |
| 30°   | 3490.8  | 3482.8  | 3441.0  | 3327.1  | 3358.3  | 3395.6  | 3390.3  | 3393.0  | 3352.5  | 3259.1  | 3114.5  |
| 32.5° | 4003.8  | 3967.3  | 3836.1  | 3516.2  | 3434.4  | 3454.4  | 3457.0  | 3501.5  | 3508.2  | 3415.7  | 3291.1  |
| 35°   | 4771.2  | 4731.1  | 4560.7  | 4022.5  | 3671.5  | 3602.1  | 3602.1  | 3668.8  | 3708.8  | 3640.8  | 3565.6  |
| 37.5° | 5584.4  | 5539.9  | 5449.1  | 4724.5  | 4169.7  | 3857.9  | 3851.2  | 3897.9  | 3955.3  | 3971.7  | 3990.4  |
| 40°   | 6508.4  | 6461.6  | 6487.0  | 5511.9  | 4865.0  | 4300.9  | 4205.7  | 4172.4  | 4327.6  | 4430.8  | 4581.2  |
| 42.5° | 7520.0  | 7498.2  | 7507.5  | 6389.1  | 5656.4  | 4964.2  | 4829.0  | 4655.9  | 4843.7  | 5027.0  | 5341.9  |
| 45°   | 8456.0  | 8474.7  | 8465.3  | 7328.2  | 6538.2  | 5773.0  | 5629.8  | 5294.8  | 5478.5  | 5793.0  | 6306.4  |
| 47.5° | 9275.9  | 9198.0  | 9318.6  | 8354.1  | 7525.3  | 6678.7  | 6501.7  | 6053.3  | 6239.2  | 6627.6  | 7495.5  |
| 50°   | 10271.0 | 10260.3 | 10083.7 | 9723.4  | 8718.4  | 7588.0  | 7356.3  | 6836.7  | 7125.8  | 7665.9  | 8994.7  |
| 52.5° | 11317.3 | 11122.9 | 10961.0 | 10788.0 | 9984.5  | 8520.5  | 8236.2  | 7617.4  | 8168.1  | 8847.0  | 10821.8 |
| 55°   | 11531.3 | 11444.6 | 11645.2 | 11936.1 | 11204.8 | 9488.9  | 9158.0  | 8596.6  | 9341.7  | 10197.6 | 12928.6 |
| 57.5° | 11989.5 | 11988.2 | 12403.7 | 12922.0 | 12461.1 | 10516.1 | 10182.5 | 9779.4  | 10660.7 | 11744.4 | 15165.4 |
| 60°   | 12299.2 | 12385.9 | 13157.7 | 14163.6 | 13694.7 | 11703.0 | 11396.1 | 11144.3 | 12161.2 | 13473.6 | 17249.6 |
| 62.5° | 12461.1 | 12579.0 | 13632.0 | 14667.2 | 15438.6 | 13678.7 | 13372.2 | 13009.2 | 14146.2 | 15370.5 | 18468.5 |
| 65°   | 11787.6 | 12018.9 | 13558.1 | 15102.7 | 16965.8 | 16881.3 | 16743.3 | 16105.9 | 16628.1 | 16869.2 | 18028.1 |
| 67.5° | 9922.7  | 10159.8 | 11952.2 | 14696.5 | 18056.1 | 19970.4 | 19999.8 | 18910.7 | 18155.3 | 16997.8 | 15157.4 |
| 70°   | 7069.8  | 7255.7  | 8738.9  | 12321.8 | 17225.6 | 21988.7 | 22089.3 | 20203.1 | 17851.1 | 15074.2 | 10590.0 |
| 72.5° | 3356.5  | 3470.4  | 4874.4  | 8019.6  | 13669.3 | 20147.0 | 20341.4 | 18553.1 | 15178.8 | 11160.3 | 5777.0  |
| 75°   | 1233.6  | 1268.3  | 1647.3  | 3411.7  | 7928.4  | 14857.6 | 15086.7 | 13299.7 | 10061.9 | 5556.4  | 2200.7  |
| 77.5° | 739.4   | 762.1   | 924.4   | 1440.0  | 3118.5  | 8492.5  | 8831.0  | 7233.0  | 4397.5  | 2068.2  | 1082.4  |
| 80°   | 516.9   | 532.9   | 662.8   | 896.0   | 1473.4  | 3236.4  | 3537.6  | 2952.1  | 1751.9  | 1308.8  | 787.4   |
| 82.5° | 349.7   | 357.7   | 466.2   | 605.5   | 979.1   | 1155.8  | 1247.0  | 1312.8  | 1181.6  | 973.8   | 499.6   |
| 85°   | 229.1   | 237.1   | 316.3   | 399.0   | 622.8   | 597.5   | 610.8   | 772.7   | 862.6   | 661.5   | 277.2   |
| 87.5° | 131.2   | 136.6   | 190.4   | 213.1   | 305.6   | 253.1   | 255.8   | 407.1   | 552.1   | 446.2   | 168.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3194.6  | 3194.6  | 3194.6 | 3194.6 | 3194.6 | 3194.6 | 3194.6 | 3194.6 | 3194.6 | 3194.6 | 3194.6 |
| 2.5°  | 3182.6  | 3165.2  | 3126.5 | 3102.0 | 3079.3 | 3074.0 | 3064.7 | 3063.3 | 3062.0 | 3062.0 | 3058.0 |
| 5°    | 3111.4  | 3082.0  | 3022.0 | 2988.2 | 2960.1 | 2957.5 | 2956.1 | 2962.8 | 2965.5 | 2968.1 | 2964.1 |
| 7.5°  | 3066.0  | 3026.0  | 2950.8 | 2902.7 | 2869.4 | 2860.9 | 2874.7 | 2905.4 | 2925.4 | 2933.4 | 2929.4 |
| 10°   | 3038.0  | 2988.2  | 2901.4 | 2848.9 | 2820.9 | 2816.9 | 2834.2 | 2870.7 | 2912.1 | 2928.1 | 2926.8 |
| 12.5° | 3005.9  | 2949.4  | 2856.9 | 2802.2 | 2786.2 | 2794.2 | 2816.9 | 2850.2 | 2893.4 | 2918.8 | 2920.1 |
| 15°   | 2973.5  | 2908.1  | 2812.9 | 2764.8 | 2758.2 | 2768.8 | 2790.2 | 2815.5 | 2848.9 | 2874.7 | 2877.4 |
| 17.5° | 2934.8  | 2866.3  | 2771.5 | 2721.7 | 2716.3 | 2721.7 | 2723.0 | 2736.4 | 2758.2 | 2782.2 | 2788.9 |
| 20°   | 2893.4  | 2823.6  | 2724.3 | 2675.0 | 2650.9 | 2629.6 | 2605.1 | 2607.8 | 2614.5 | 2638.9 | 2644.3 |
| 22.5° | 2863.6  | 2794.2  | 2688.3 | 2619.8 | 2555.7 | 2491.2 | 2443.2 | 2436.5 | 2439.2 | 2459.2 | 2465.9 |
| 25°   | 2866.3  | 2792.9  | 2679.0 | 2561.1 | 2420.5 | 2317.3 | 2252.8 | 2242.1 | 2240.8 | 2255.5 | 2265.2 |
| 27.5° | 2918.8  | 2844.9  | 2713.7 | 2500.6 | 2273.3 | 2120.2 | 2052.2 | 2044.2 | 2033.5 | 2037.5 | 2048.2 |
| 30°   | 3035.3  | 2966.8  | 2798.2 | 2439.2 | 2113.5 | 1927.6 | 1856.4 | 1848.4 | 1833.7 | 1827.1 | 1835.1 |
| 32.5° | 3225.3  | 3169.2  | 2921.4 | 2380.0 | 1954.3 | 1762.6 | 1690.5 | 1673.1 | 1663.8 | 1655.8 | 1662.5 |
| 35°   | 3541.6  | 3517.5  | 3086.0 | 2316.0 | 1813.7 | 1635.3 | 1569.9 | 1543.2 | 1529.9 | 1544.6 | 1555.2 |
| 37.5° | 4037.1  | 4050.5  | 3301.8 | 2215.4 | 1705.2 | 1551.2 | 1496.1 | 1465.4 | 1445.4 | 1457.4 | 1469.4 |
| 40°   | 4739.1  | 4748.5  | 3540.2 | 2073.5 | 1611.3 | 1501.4 | 1442.7 | 1414.7 | 1386.2 | 1364.8 | 1363.5 |
| 42.5° | 5660.4  | 5565.7  | 3774.7 | 1919.6 | 1502.8 | 1470.7 | 1405.3 | 1370.2 | 1327.5 | 1268.3 | 1256.3 |
| 45°   | 6753.5  | 6420.3  | 3952.6 | 1742.5 | 1380.9 | 1433.4 | 1363.5 | 1315.5 | 1248.3 | 1184.2 | 1177.6 |
| 47.5° | 8012.9  | 7337.6  | 4039.8 | 1559.2 | 1267.0 | 1378.2 | 1312.8 | 1236.3 | 1151.8 | 1119.7 | 1115.7 |
| 50°   | 9550.3  | 8426.6  | 4081.2 | 1380.9 | 1168.2 | 1306.1 | 1238.9 | 1149.1 | 1078.4 | 1071.7 | 1067.7 |
| 52.5° | 11301.3 | 9736.7  | 4095.0 | 1234.9 | 1086.4 | 1212.3 | 1178.9 | 1091.7 | 1035.2 | 1041.0 | 1041.0 |
| 55°   | 13133.7 | 11089.6 | 3912.6 | 1129.1 | 1011.2 | 1115.7 | 1138.4 | 1069.0 | 1021.9 | 1043.7 | 1051.7 |
| 57.5° | 14815.8 | 12288.5 | 3339.1 | 1047.7 | 940.4  | 1042.3 | 1123.7 | 1090.4 | 1058.3 | 1145.1 | 1150.4 |
| 60°   | 16107.2 | 12996.7 | 2493.9 | 973.8  | 887.9  | 1016.5 | 1162.9 | 1172.2 | 1180.2 | 1387.5 | 1416.0 |
| 62.5° | 16377.7 | 12761.4 | 1714.5 | 916.4  | 863.9  | 1038.3 | 1233.6 | 1234.9 | 1225.6 | 1370.2 | 1387.5 |
| 65°   | 15136.1 | 11270.2 | 1247.0 | 883.9  | 843.9  | 1077.0 | 1294.1 | 1265.6 | 1204.2 | 1314.1 | 1281.7 |
| 67.5° | 12020.2 | 8491.1  | 1038.3 | 859.9  | 814.5  | 1074.3 | 1358.2 | 1294.1 | 1192.2 | 1287.4 | 1234.9 |
| 70°   | 7802.5  | 5134.2  | 924.4  | 839.9  | 779.4  | 1023.2 | 1395.5 | 1291.4 | 1157.1 | 1197.6 | 1135.7 |
| 72.5° | 3806.7  | 2295.9  | 847.9  | 810.5  | 743.4  | 952.5  | 1394.2 | 1267.0 | 1121.1 | 1118.4 | 1085.0 |
| 75°   | 1489.4  | 1051.7  | 778.1  | 766.1  | 682.0  | 871.9  | 1356.8 | 1232.3 | 1078.4 | 1035.2 | 1023.2 |
| 77.5° | 871.9   | 750.0   | 690.0  | 700.7  | 608.1  | 791.4  | 1302.1 | 1172.2 | 1019.2 | 968.5  | 955.1  |
| 80°   | 634.8   | 561.4   | 588.1  | 605.5  | 519.6  | 711.3  | 1228.3 | 1098.4 | 953.8  | 979.1  | 960.5  |
| 82.5° | 407.1   | 361.7   | 476.9  | 494.2  | 432.9  | 629.5  | 1147.7 | 1020.5 | 861.3  | 782.1  | 763.4  |
| 85°   | 207.8   | 229.1   | 355.0  | 376.4  | 333.6  | 516.9  | 1050.3 | 917.8  | 756.7  | 650.8  | 661.5  |
| 87.5° | 116.6   | 156.6   | 226.4  | 253.1  | 235.8  | 397.7  | 851.9  | 756.7  | 617.5  | 502.3  | 442.2  |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)